

AMENDMENT TO THE CLAIMS

1. (Canceled)
2. (Previously Presented) A process for making a body of a vehicle for hauling material, the process comprising:
 - determining a desired location for a load center of gravity on a chassis of the vehicle;
 - determining a desired volumetric capacity for the body;
 - developing a three dimensional volumetric model of a load to be carried in the body on the chassis that includes corner voids, using data collected from an anticipated point of use;
 - adjusting a set of design parameters of the body until the load center of gravity for the three-dimensional volumetric model of the load is located proximate the desired location for the load center of gravity on the chassis and the volume of the three dimensional volumetric model approximates the desired volumetric capacity; and
 - producing the body in accordance with the set of design parameters.
3. (Currently Amended) A process for making a body of a haulage vehicle comprising:
 - modeling a shape of a load of heaped material in three dimensions, where the shape of the load of heaped material is substantially conical;
 - modeling a the body of a the haulage vehicle to hold the modeled ~~substantially conically-shaped~~ load of heaped material, where a the shape of the body is determined by predetermined parameters and conforms to the shape of the modeled load of heaped material in three dimensions ~~and is determined by predetermined parameters~~; and
 - producing the body according to the modeled body determined by values of the predetermined parameters ~~resulting from modeling of the body and the modeled load of the heaped material~~.

4. (Previously Presented) The process of claim 3 where the predetermined parameters include one or more of (1) a position of the body's floor, (2) a position of the body's sidewalls (3) a length of the floor, (4) a height of sidewalls, (5) a distance between the respective sidewalls and (6) a position of the body front wall.
5. (Previously Presented) The process of claim 3 including adjusting the predetermined parameters to locate a location for a center of gravity of material held in the modeled body that approximates a lowest possible position for the center of gravity.
6. (Previously Presented) The process of claim 3 further including adjusting the predetermined parameters to allow material to be dropped into the modeled body from a lowest practical vertical elevation over a floor of the body.
7. (Previously Presented) The process of claim 2 where the set of design parameters includes one or more of (1) a position of the body's floor, (2) a position of the body's sidewalls (3) a length of the floor, (4) a height of sidewalls, (5) a distance between the respective sidewalls and (6) a position of the body front wall.
8. (Previously Presented) The process of claim 2 wherein the three dimensional volumetric model is substantially conical.
9. (Previously Presented) The process of claim 2 including adjusting the set of design parameters such that the location of the load center of gravity for the three-dimensional volumetric model of the load approximates a lowest possible location while maintaining proximate alignment with the desired location for the load center of gravity.
10. (Previously Presented) The process of claim 2 further including adjusting the set of design parameters to allow material to be dropped into the body from a lowest practical vertical elevation over a floor of the body.
11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Previously Presented) The process of claim 2 wherein adjusting a set of design parameters of the body includes curving a rear edge of the floor to correspond with the corner voids in the three-dimensional volumetric model.

16. (Previously Presented) The process of claim 3 wherein the predetermined parameters include a curved rear edge of a floor of the body complementing the conical shape of the load of heaped material where the load meets the floor.

17. (Previously Presented) The process of claim 3 wherein the shape of the load is dependent on a type of the material.

This listing of claims replaces all prior versions, and listings, of claims in the application.